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CLAIMS

- (1. A composition for inhibiting the growth of microorganisms on non-cellulosic fibres having a moisture regain of $\leq 5\%$, comprising;
 - i) 1 to 50 wt% of at least a self-crosslinkable resin;
 - ii) 0.25 to 20 wt% of at least a catalyst;
 - iii) 0.1 to 4 wt% of at least an antimicrobial active agent, reactive with the resin;
 - iv) 98.65 to 26 wt% of water;
- 10 wherein i) + ii) + iii) + iv) = 100%.
 - 2. A composition according to claim 1 where the non-cellulosic fibres have an acid value ≤ 5 mmol/kg.
- 15 3. A composition for inhibiting the growth of microorganisms on non-cellulosic fibres having an acid value of ≤ 5 mmol/kg, comprising;
 - i) 1 to 50 wt% of at least a self-crosslinkable resin;
 - ii) 0.25 to 20 wt% of at least a catalyst;
 - iii) 0.1 to 4 wt% of at least an antimicrobial active agent, reactive with the resin;
 - iv) 98.65 to 26 wt% of water;

wherein i) + ii) + iii) + iv) = 100%.

- 4. A composition according to claim 3 where the non-cellulosic fibres have a moisture
 25 regain of ≤ 5%.
 - 5. A composition according to any one of the preceding claims where the non-cellulosic fibres are selected from the group consisting of polyester, polyamide, polypropylene, polyurethane and cellulose acetate.
 - 6. A composition according to any one of the preceding claims where the self-crosslinkable resin is an amino resin.
- 7. A composition according to claim 6 where the self-crosslinkable resin is a formaldehyde condensate with urea or melamine.
 - 8. A composition according to claim 7 where the self-crosslinkable resin is selected from dimethyloldihydroxyethylene urea and dihydroxydimethylene urea.

9. A composition according to any one of the preceding claims where the catalyst is selected from the group consisting of MgCl₂; ammonium chloride; ammonium sulphate; ammonium salts of formic acid, boric acid, phosphoric acid, oxalic acid; poly(hexamethylene biguanide) hydrochloride and or mixtures thereof.

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- 10. A composition according to any one of claims 1 to 8 where the catalyst is selected from the group consisting of MgCl₂; ammonium chloride; ammonium sulphate; ammonium salts of formic acid, boric acid, phosphoric acid, oxalic acid; and or mixtures thereof.
- 10 11. A composition according to any one of claims 1 to 9 where the catalyst is poly(hexamethylene biguanide) hydrochloride.
 - 12. A composition according to any one of the preceding claims where the antimicrobial active agent is selected from the group consisting of quaternary ammonium salts, biguanides, monoguanides, and or mixtures thereof.
 - 13. A method for inhibiting the growth of microorganisms on non-cellulosic fibres having a moisture regain of \leq 5%, comprising stages:
 - A) contacting the fibres with a composition according to any one of the preceding claims;
- 20 B) optionally drying the fibres contacted with the composition; and
 - C) curing the fibres contacted with the composition to effect crosslinking of the resin.
 - 14. A method according to claim 13 where the non-cellulosic fibres have an acid value of ≤ 5 mmol/kg.

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- 15. A method for inhibiting the growth of microorganisms on non-cellulosic fibres having an acid value of \leq 5 mmol/kg, comprising stages:
- A) contacting the fibres with a composition according to any one of the preceding claims;
- B) optionally drying the fibres contacted with the composition; and
- 30 C) curing the fibres contacted with the composition to effect crosslinking of the resin.
 - 16. A method according to claim 15 where the non-cellulosic fibres have a moisture regain of \leq 5%.
- 35 17. A method according to any one of claims 13 to 16 where stage C) is carried out at temperatures in the range of from 100 to 180°C.
 - 18. A method according to any one of claims 13 to 17 where stage C) is carried out for a time in the range of from 30 seconds to 5 minutes.

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- 19. Non-cellulosic fibres having a moisture regain of \leq 5% carrying a composition comprising:
 - (a) 1 to 10 wt% by weight of the non-cellulosic fibres of at least a selfcrosslinkable resin; and
 - (b) 0.1 to 1 wt% by weight of the non-cellulosic fibres of at least an antimicrobial active agent, reacted with the resin.
- 20. Non-cellulosic fibres according to claim 19 having an acid value of ≤ 5 mmol/kg.
- 10 21. Non-cellulosic fibres having an acid value of ≤ 5 mmol/kg carrying a composition comprising:
 - (a) 1 to 10 wt% by weight of the non-cellulosic fibres of at least a selfcrosslinkable resin; and
 - (b) 0.1 to 1 wt% by weight of the non-cellulosic fibres of at least an antimicrobial active agent, reacted with the resin.
 - 22. Non-cellulosic fibres according to claim 21 having a moisture regain of \leq 5%.
- 23. Non-cellulosic fibres having a moisture regain of ≤ 5% treated with a composition
 20 according to any one of claims 1 to 11.
 - 24. Non-cellulosic fibres having an acid value of \leq 5% mmol/kg treated with a composition according to any one of claims 1 to 11.
- 25. Use of a composition according to any one of claims 1 to 11 in the treatment of non-cellulosic fibres having a moisture regain of ≤ of 5%.
 - 26. Use of a composition according to any one of claims 1 to 11 in the treatment of non-cellulosic fibres having an acid value of \leq 5 mmol/kg.